

CLAIMS

1. An electroluminescent element provided with layers of electroluminescent material interposed between anodes and cathodes, characterized in that it comprises:

5 an anode group formed by parallel arrangement of a plurality of anodes;

10 a bank group formed by parallel arrangement of banks intersecting with said anode group and having a height which prevents outflow of said electroluminescent material introduced during manufacture;

15 said electroluminescent material layers formed in between said banks; and

20 a cathode group wherein cathodes running in the longitudinal direction of said electroluminescent material layers are provided on said electroluminescent material layers and are separated electrically for each of said electroluminescent material layers by means of said banks.

25 2. The electroluminescent element according to claim 1, characterized in that said cathodes are formed in a continuous fashion over a side face of said banks facing in a prescribed direction, the top face of said banks, and said electroluminescent material layers.

3. The electroluminescent element according to claim 1, characterized in that the angle formed between at least one side face of said banks and the face on which said banks are installed is an acute angle.

4. The electroluminescent element according to claim 1, characterized in that the angle formed between at least one side face of said banks and top face thereof is an acute angle.

5. The electroluminescent element according to claim 1, characterized in that said electroluminescent material layers are constituted by light-emitting layers and/or charge transporting layers.

6. The electroluminescent element according to claim 5, characterized in that said light-emitting layers emitting light 10 in each of the primary colours for the purpose of providing a colour display are arranged sequentially.

7. The electroluminescent element according to claim 1, characterized in that each of the anodes constituting said anode group and each of the cathodes constituting said cathode group 15 are connected individually, further comprising means for providing simple matrix driving of said electroluminescent element.

8. A method for manufacturing an electroluminescent element provided with layers of electroluminescent material 20 interposed between anodes and cathodes, characterized in that it comprises the steps of:

forming an anode group by parallel arrangement of a plurality of anodes on a substrate;

25 forming a bank group by parallel arrangement of banks intersecting with said anode group and having a height which prevents outflow of said electroluminescent material in an electroluminescent material forming step;

forming electroluminescent material layers by introducing a liquid of said electroluminescent material inbetween said banks; and

5 forming a cathode group wherein cathodes are electrically separated by means of said banks, by depositing cathode material onto said electroluminescent material layers from a direction which forms a prescribed angle with the longitudinal direction of said banks.

9. The method for manufacturing an electroluminescent 10 element according to claim 8, characterized in that said banks are formed such that the angle between the side faces thereof and the face on which said banks are installed is a right angle, and said cathode group is formed by depositing cathode material by oblique vapour deposition from a direction confronting said side 15 faces, or a direction perpendicular to the vertical direction of said banks.

10. The method for manufacturing an electroluminescent element according to claim 8, characterized in that said banks are formed such that the angle between at least one side face of 20 said banks and the face on which said banks are installed is an acute angle, and said cathode group is formed by depositing cathode material by oblique vapour deposition from a direction confronting said one side face or the vertical direction of said banks.

25 11. The method for manufacturing an electroluminescent element according to claim 8, characterized in that said banks are formed such that the angle between at least one side face of

said banks and the top face thereof is an acute angle, and said cathode group is formed by vapour deposition from the vertical direction of said banks.

12. The method for manufacturing an electroluminescent element according to any one of claims 8 to 11, characterized in that non-glare treatment and/or antireflection treatment is carried out on the surface of said electroluminescent element.

13. The method for manufacturing an electroluminescent element according to claim 8, characterized in that the formation of said electroluminescent material layer is carried out by injecting and filling a liquid of electroluminescent material inbetween said banks by means of an ink-jet method.

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